

Attorney's Docket No. 0400001-128

## UN TOPE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent A	Application of	
Peter LARSS	SON	Group Art Unit: 2681
Application I	No.: 09/995,759	Examiner: Unassigned
Filed: Nove	mber 29, 2001	
	CHODS AND ARRANGEMENTS IN () ELECOMMUNICATIONS SYSTEM ()	·
	INFORMATION DISCLO	
	mmissioner for Patents D.C. 20231	
Sir:	•	
	osed is an Information Disclosure Stater red patent application.	nent and accompanying form PTO-1449 for the
[X]	No additional fee for submission of a	an IDS is required.
[]	The fee of \$180.00 (126) as set forth	n in 37 C.F.R. § 1.17(p) is also enclosed.
[]	A certification under 37 C.F.R. § 1.	97(e) is also enclosed.
[]	A certification under 37 C.F.R. § 1. in 37 C.F.R. § 1.17(p) are also encl	97(e), and the fee of \$180.00 (126) as set forth osed.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.

Respectfully submitted,

BURNS, DOAME, SWECKER & MATHIS, L.L.P.

P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620

Date: February 15, 2002

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Kenneth B. Leffler Registration No. 36,075

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Par Par	tent Application of	)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ARSSON	) Group Art Unit: 2681
ATENT & TRADE	ion No.: 09/995,759	) Examiner: Unassigned
Filed: N	November 29, 2001	)
	METHODS AND ARRANGEMENTS IN A TELECOMMUNICATIONS SYSTEM	) ) )

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

## European Standard Search Report issued in connection with Application No. SEA 0004403, mailed August 29, 2001:

Won Gi Jeon et al: "An efficient channel estimation technique for OFDM systems with transmitter diversity", Proceedings of 11<sup>th</sup> International Symposium on Personal, Indoor and Mobile Radio Communication, Vol. 2, 18-21 September 2000, pages 1246-1250, XP002175336, London, UK. Page 1246, paragraph 1; page 1249, paragraph 2.

Li Y et al: "Channel Estimation for OFDM Systems With Transmitter Diversity in Mobile Wireless Channels", IEEE Journal on Selected Areas in Communications, IEEE Inc. New York, US. Vol. 17, No. 3, March 1999, pages 461-470, XP000804975.

International Search Report issued in connection with International Application No. PCT/SE01/02292, mailed January 29, 2002:

- U.S. Patent No. 6,005,876, issued December 21, 1999, to Cimini, Jr. et al.
- U.S. Patent No. 6,144,711, issued November 7, 2000, to Raleigh et al.
- U.S. Patent No. 6,115,427, issued September 5, 2000, to Calderbank et al.

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U.S. Patent No. 6,131,016, issued October 10, 2000, to Greenstein et al.

U.S. Patent No. 5,867,478, issued February 2, 1999, to Baum et al.

European Patent Publication No. EP 1047209 A1, October 25, 2000.

European Patent Publication No. EP 0903898 A2, March 24, 1999.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or statement is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Kenneth B. Leffler

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P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620

Date: February 15, 2002

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

ATTORNEY'S DKT NO.	APPLICATION NO.
040001-128	09/995,759
APPLICANT	
Peter LARSSON	
FILING DATE	GROUP
November 29, 2001	2681

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Marminer Initials	Number	Kind Code	Name of Patentee or Applicant of Cited Document		Date of Publication (MM-DD-YYYY) December 21, 1999			
	6,005,876	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cimini, Jr. et al.					
	6,144,711		Raleigh et al.		November 7, 2000			
	6,115,427		Calderbank et al.	September 5,	September 5, 2000 October 10, 2000 February 2, 1999			
	6,131,016		Greenstein et al.	October 10,				
	5,867,478		Baum et al.	February 2,				
		Mary 1 1 Mary Marie and American	OREIGN PATENT DOCUMENTS					
Examiner	Foreign Patent	Kind Code		Date of Publication	Translation			
Initials	Number	(if known)	Country	(MM-DD-YYYY)	Yes n			
	EP1047209A1		Europe	October 25, 2000				
	EP0903898A2		Europe	March 24, 1999				
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Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.							
	WON GI JEON et al: "An efficient channel estimation technique for OFDM systems with transmitter diversity", Proceedings of 11 <sup>th</sup> Internaitonal Symposium on Personal, Indoor and Mobile Radio Communication, Vol. 2, 18-21 September 2000, pages 1246-1250, XP002175336, London, UK. Page 1246, paragraph 1; page 1249, paragraph 2							
	LI Y et al: "Channel Estimation for OFDM Systems With Transmitter Diversity in Mobile Wireless Channels", IEEE Journal on Selected Areas in Communications, IEEE Inc. New York, US. Vol. 17, No. 3, March 1999, pages 461-470							
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and \_\_not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.